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ASSOCIATES,
INC.

Geoenvironmental Engineering and Technologies

Colbert 8.4
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DEC 11 1989 December 8, 1989

SUPERFUND BRANCH

Mr. Neil Thompson
U.S. Environmental Protection Agency
Park Place Building
1200 Sixth Avenue
Seattle, WA 98101

RE: PROGRESS REPORT
COLBERT LANDFILL RD/RA
NOVEMBER 1989

Presented herein is the November 1989 progress report for the Colbert Landfill RD/RA Superfund Project (Project), which has been prepared by Landau Associates, Inc. (Landau), Spokane County's (County) engineering consultant. It addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- o A description of Remedial Action activities commenced or completed during the reporting period,
- o Remedial Action activities projected to be commenced or completed during the next reporting period (through December 1989), and
- o Any problems that have been encountered or are anticipated in commencing or completing the activities.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

Several activities were commenced and/or completed during the reporting period. Most of these activities are related to community relations, work plan preparation, and continuation of Phase I field activities. Specific activities commenced and/or completed during this period include:

- o A Project fact sheet was prepared for distribution to the public. The fact sheet was prepared by the County with the review and concurrence of EPA/Ecology, and was mailed December 5, 1989.
- o The Phase I Pilot Well Plan was submitted to EPA/Ecology on November 30, 1989, for review and approval. EPA/Ecology comments on the Plan are due by January 1, 1990.
- o Well construction activities have been commenced, completed, and are ongoing at a number of Phase I monitoring well locations (refer to attached Site Plan, Figure 1):
 - The boring for the first monitoring well at Location CD-22 was advanced to about 200 feet below ground surface (BGS) (anticipated total depth of boring is between 220 and 240 feet BGS). The basalt aquifer was not encountered during drilling,

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nor was any other significant aquifer unit. It is anticipated that only one monitoring well will be constructed at this location.

- The first monitoring well at Location CD-41 was completed. The boring was advanced to about 426 feet BGS, and the well is screened from about 330 to 400 feet BGS (at the base of the Lower Sand/Gravel Aquifer). Two additional wells will be constructed at this location, both screened in the Lower Sand/Gravel Aquifer.
- The boring for the second monitoring well at Location CD-41 was initiated; the anticipated total depth is about 300 feet BGS.
- The second monitoring well at Location CD-42 was completed (December 1). The well is screened in the Lower Sand/Gravel Aquifer from about 290 to 310 feet BGS.
- The boring for the third monitoring well at Location CD-42 was completed to a total depth of about 225 feet BGS.
- The boring for the first monitoring well at Location CD-43 was advanced (with cable tool) to about 325 feet BGS. The anticipated total depth of boring is about 410 feet BGS.

2.0 ACTIVITIES PROJECTED TO BE COMMENCED/COMPLETED DURING NEXT REPORTING PERIOD

As specified in the Schedule for Submittal of Deliverables, the next reporting period will extend through December 1989. Anticipated activities for December include continuation of well construction activities and well development. Specific activities anticipated to be commenced/completed during the next reporting period include:

- o Complete the first monitoring well at Location CD-22. The screened zone will be selected based on geohydrologic conditions, once boring advancement has been completed (by late December).
- o Initiate drilling (with cable tool) for the first monitoring well at Location CD-23 (by mid-December).
- o Complete the second and third monitoring wells at Location CD-41. Anticipated well depths are about 300 and 225 feet BGS, respectively (by late December).
- o Complete the third monitoring well at Location CD-42. Anticipated well depth is about 225 feet BGS (by early December).
- o Complete the first monitoring well at Location CD-43. The well will be screened at the base of the Lower Sand/Gravel Aquifer. Anticipated well depth is about 400 feet BGS (by late December).
- o Initiate and complete drilling (with air rotary) for the second and third monitoring wells at Location CD-43. Anticipated well depths are about 300 and 230 feet BGS, respectively (by late December).

- o Initiate development of West System Phase I monitoring wells (by mid-December).

Note: Site activities will probably be suspended December 22 through January 1.

3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

No significant problems were encountered during this reporting period. However, two potential problems that may impact ground water sampling and pilot well construction activities (respectively) are presented below:

- o EPA/Ecology approval of the revised Quality Assurance Project Plan (QAPjP) has not been received by the County. Initial ground water sampling and analysis is tentatively scheduled for mid-January. EPA/Ecology QAPjP approval is needed by December 15, 1989, to prevent delay of Phase I ground water sampling and analysis activities.
- o EPA/Ecology review and approval of the Phase I Pilot Well Plan is needed by January 2, 1990, to prevent possible delay in pilot well construction activities. Delay of Plan approval beyond this date may result in the demobilization of some drilling equipment, potentially postponing pilot well construction until early spring.

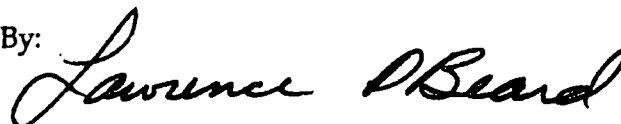
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This progress report describes the major Remedial Action activities commenced or completed during the reporting period, anticipated to be commenced or completed during the next reporting period, and any problems encountered or anticipated. As such, there are secondary and peripheral activities associated with these major tasks that are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for secondary or peripheral activities, please contact me or Dean Fowler (Spokane County).

Very truly yours,

LANDAU ASSOCIATES, INC.

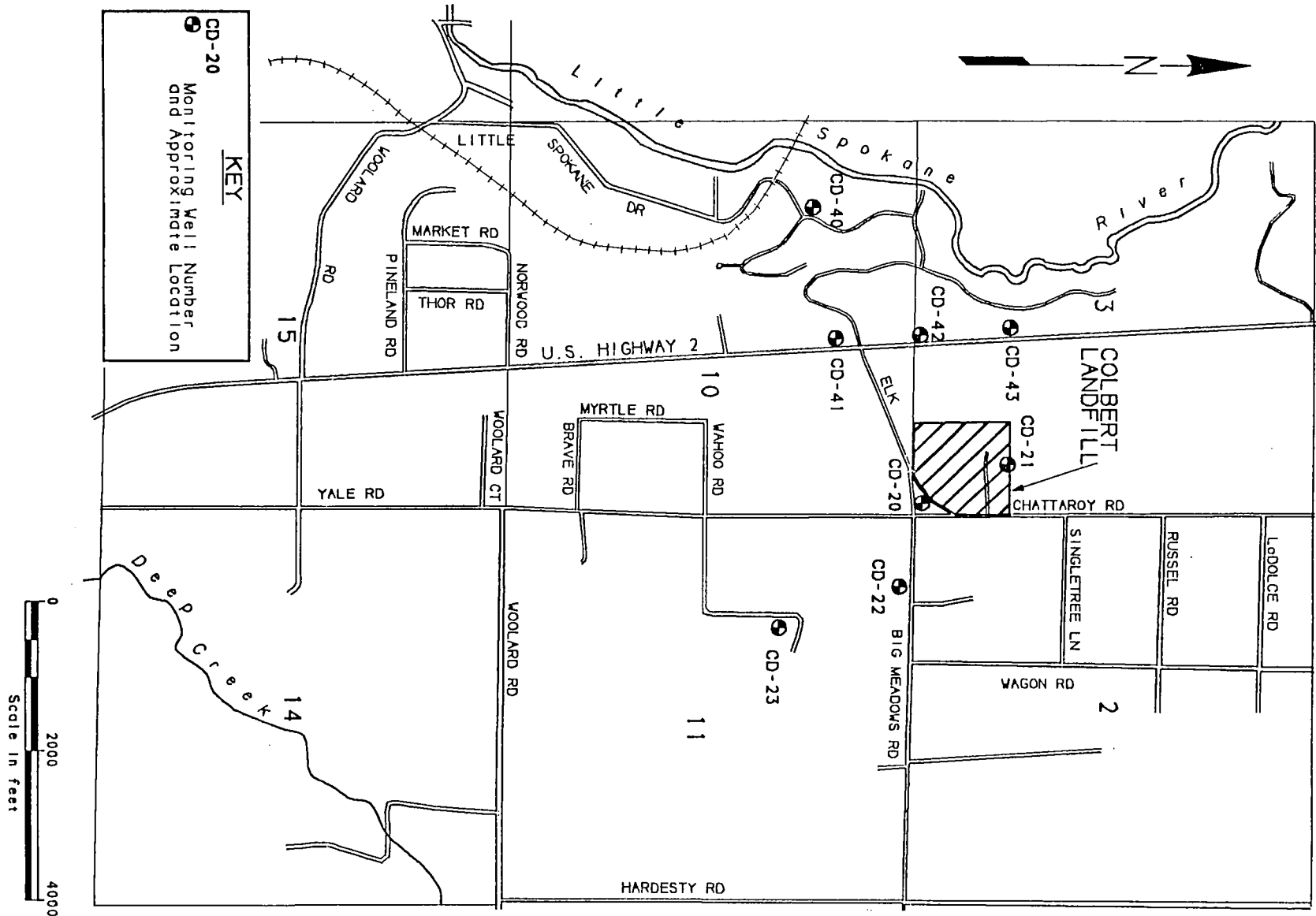
By:



Lawrence D. Beard, P.E.
Project Manager

LDB/sg
No. 124-01.60

cc: Mr. Mike Blum
Washington State Department of Ecology
Mr. Dean Fowler
Spokane County
Mr. Lyle Diedieker
Ecology and Environment



LANDAU ASSOCIATES, INC.

Site Plan

Figure 1